

### ABSTRACT OF THE DISCLOSURE

A speed control and stall protection system 10 for an electric DC brush motor includes a DC brush motor M. At least one relay K3 is connected between the motor and a power supply. A speed sensing circuit 20 is constructed and arranged to generate a signal indicative of a speed of the motor. A motor control and protection circuit 116 is constructed and arranged to receive 1) the signal from the speed sensing circuit and 2) a control signal input for operating the at least one relay to control operation of the motor. When a stall condition is determined based on the signal from the speed sensing circuit, the motor control and protection circuit is constructed and arranged to control the at least one relay to disconnect power to the motor.

Fig. 4